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PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	12	Application Number	09/896,136
		Filing Date	June 29, 2001
		First Named Inventor	Kok-Thye Lim
		Art Unit	2123
		Examiner Name	Eduardo Garcia Otero
		Attorney Docket Number	1048-OBJ1117-US

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Form PTO-1449 (6 pgs); Cited References (37); Return Receipt Postcard
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		
CUSTOMER NO.: 34456		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	TOLER, LARSON & ABEL, LLP		
Signature			
Printed name	John R. Schell		
Date	03/21/2005	Reg. No.	50,776

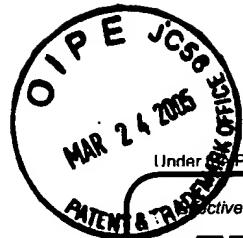
CERTIFICATE OF TRANSMISSION/MAILING

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Signature			
Typed or printed name	Elise K. Dougherty	Date	03/21/2005

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PTO/SB/17 (11-04)

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FEE TRANSMITTAL For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180.00)

Complete if Known

Application Number	09/896,136
Filing Date	June 29, 2001
First Named Inventor	Kok-Thye Lim
Examiner Name	Eduardo Garcia Otero
Art Unit	2123
Attorney Docket No.	1048-OBJ1117-US

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order

Deposit Account None

Deposit Account Number
50-2469

Deposit Account Name
TOLER, LARSON & ABEL, LLP

The Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below
 Charge fee(s) indicated below, except for the filing fee
 Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17
 Credit any overpayments

to the above-identified deposit account.

Other (please identify): _____

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING FEE

<u>Fee Description</u>	<u>Fee (\$)</u>	<u>Small Entity Fee (\$)</u>	<u>Fee Paid (\$)</u>
Utility Filing Fee	790	395	_____
Design Filing Fee	350	175	_____
Plant Filing Fee	550	275	_____
Reissue Filing Fee	790	395	_____
Provisional Filing Fee	160	80	_____

Subtotal (1) \$ 0.00

FEE CALCULATION (continued)

2. EXTRA CLAIM FEES

<u>Fee Description</u>	<u>Fee (\$)</u>	<u>Small Entity Fee (\$)</u>
Each claim over 20	18	9
Each independent claim over 3	88	44
Multiple dependent claims	300	150
For Reissues, each claim over 20 and more than in the original patent	18	9
For Reissues, each independent claim more than in the original patent	88	44

Total Claims _____ - 20 or HP = _____ x _____ = _____
HP = highest number of total claims paid for, if greater than 20

Indep. Claims _____ - 3 or HP = _____ x _____ = _____
HP = highest number of independent claims paid for, if greater than 3

Multiple Dependent Claims _____ **Fee (\$)** _____ **Fee Paid (\$)** _____

Subtotal (2) \$ 0.00

3. OTHER FEES

<u>Fee Description</u>	<u>Fee (\$)</u>	<u>Small Entity Fee (\$)</u>	<u>Fee Paid (\$)</u>
1-month extension of time	110	55	_____
2-month extension of time	430	215	_____
3-month extension of time	980	490	_____
4-month extension of time	1,530	765	_____
5-month extension of time	2,080	1,040	_____
Information disclosure stmt. fee	180	180	180.00
37 CFR 1.17(q) processing fee	50	50	_____
Non-English specification	130	130	_____
Notice of Appeal	340	170	_____
Filing a brief in support of appeal	340	170	_____
Request for oral hearing	300	150	_____
Other: _____			

Subtotal (3) \$ 180.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 50,776	Telephone 512-327-5515
Name (Print/Type)	John R. Schell		Date 03/21/2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kok-Thye Lim, et al.

Title: METHOD AND SYSTEM FOR HIGH-RESOLUTION MODELING OF A WELL BORE IN A HYDROCARBON RESERVOIR

Application No.: 09/896,136 Filed: June 29, 2001

Examiner: Eduardo Garcia Otero Group Art Unit: 2123

Atty. Docket No.: 1048-OBJ1117-US

COMMISSIONER FOR PATENTS
PO Box 1450
Alexandria, VA 22313-1450

03/25/2005 BABRAHA1 00000056 502469 09896136
01 FC:1806 180.00 DA

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
 Other: n/a

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

1. an admission that the information necessarily is, or corresponds to, prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described below; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance, such as through (i) an English language abstract, (ii) an English language equivalent application, (iii) reference to discussion in the application, or (iv) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

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Elise K. Dougherty
Typed or Printed Name

E.K. Dougherty
Signature

STATEMENT UNDER 37 C.F.R. § 1.704(d)

If the above-identified application is an original application filed on or after May 29, 2000:

each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.

FEES DUE

This Information Disclosure Statement is being filed:

within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.

before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.

during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.

during the period specified in § 1.97(d). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal. Additionally, each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.

Should any PTO fees be necessary for entry of this Information Disclosure Statement, the undersigned hereby authorizes the Commissioner to charge Deposit Account 50-2469.

Date

3.21.05

Respectfully submitted,


John R. Schell, Reg. No. 50,776
Agent for Applicant(s)
TOLER, LARSON & ABEL, L.L.P.
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Austin, Texas 78746
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(512) 327-5452 (fax)



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

Complete if Known

Application Number	09/896,136
Filing Date	June 29, 2001
First Named Inventor	Kok-Thye Lim
Art Unit	2123
Examiner Name	Eduardo Garcia Otero
Attorney Docket Number	1048-OBJ1117-US

Sheet 1 of 6

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
A1	US- 3,029,018	04/10/1962	Floyd, Jr.	
B1	US- 3,302,710	02/07/1967	Odeh	
C1	US- 4,821,164	04/11/1989	Swanson	
D1	US- 5,255,212	10/19/1993	Kondoh et al.	
E1	US- 5,432,718	07/11/1995	Molvig et al.	
F1	US- 5,572,634	11/05/1996	Duluk, Jr.	
G1	US- 5,604,911	02/18/1997	Ushiro	
H1	US- 5,617,322	04/01/1997	Yokota	
I1	US- 5,675,521	10/07/1997	Holzhauer et al.	
J1	US- 5,699,271	12/16/1997	Sagawa et al.	
K1	US- 5,710,726	01/20/1998	Rowney et al.	
L1	US- 5,740,342	04/14/1998	Kocberber	
M1	US- 5,754,181	05/19/1998	Amdursky et al.	
N1	US- 5,891,131	04/06/1999	Rajan et al.	
O1	US- 5,966,524	10/12/1999	Burnett et al.	
P1	US- 6,014,473	01/11/2000	Hossack et al.	
Q1	US- 6,018,497	01/25/2000	Gunasekera	
R1	US- 6,028,607	02/22/2000	Chan	
S1	US- 6,041,017	03/21/2000	Goldsberry	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
T1	EP 0 709 789 A2		05/01/1996			
U1	EP 0 801 364 B1		07/30/2003		English Abstract	
V1	FR 2,775,094		08/20/1999		English Abstract	
W1	GB 2,326,747 A		12/30/1998			
X1	WO 99/40532		08/12/1999			
Y1	WO 99/52048		10/14/1999			

Examiner Signature

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 6

Complete if Known

Application Number	09/896,136
Filing Date	June 29, 2001
First Named Inventor	Kok-Thye Lim
Art Unit	2123
Examiner Name	Eduardo Garcia Otero
Attorney Docket Number	1048-OBJ1117-US

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A2	US- 6,052,520	04/18/2000	Watts, III		
B2	US- 6,054,992	04/25/2000	Gibson		
C2	US- 6,064,810	05/16/2000	Raad et al.		
D2	US- 6,070,125	05/30/2000	Murphy et al.		
E2	US- 6,078,869	06/20/2000	Gunasekera		
F2	US- 6,106,561	08/22/2000	Farmer		
G2	US- 6,191,796 B1	02/20/2001	Tarr		
H2	US- 6,313,837 B1	11/06/2001	Assa et al.		
I2	US- 6,445,390 B1	09/03/2002	Aftosmis et al.		
J2	US- 6,448,788 B1	09/10/2002	Meaney et al.		
K2	US- 6,516,080 B1	02/04/2003	Nur		
L2	US- 6,552,724 B1	04/22/2003	Marshall		
M2	US- 6,587,104 B1	07/01/2003	Hoppe		
N2	US- 6,608,628 B1	08/19/2003	Ross et al.		
O2	US- 6,674,432 B2	01/06/2004	Kennon et al.		
P2	US- 5,553,009	09/03/1996	Meshkat et al.		
Q2	US- 5,999,187	12/07/1999	Dehmlow et al.		
R2	US- 6,816,820 B1	11/09/2004	Friedl et al.		
S2	US- 2002/0032494 A1	03/14/2002	Kennon et al.		

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
T2	WO 99/57418		11/11/1999			
U2	WO 02/01251 A2		01/03/2002			
V2	WO 02/02901 A2		01/10/2002			
W2	WO 02/03101 A2		01/10/2002			
X2	WO 02/03103 A2		01/10/2002			
Y2	WO 02/03262 A2		01/10/2002			

Examiner Signature		Date Considered
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Sheet 3

of 6

Application Number	09/896,136
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U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
A3	US-	2002/0032550 A1	03/14/2002	Ward et al.	
B3	US-	2002/0035453 A1	03/21/2002	Pond, Jr. et al.	
C3	US-	2002/0046014 A1	04/18/2002	Kennon	
D3	US-	2002/0067373 A1	06/06/2002	Roe et al.	
E3	US-	2002/0072883 A1	06/13/2002	Lim et al.	
F3	US-	2002/0082813 A1	06/27/2002	Lim et al.	
G3	US-				
H3	US-				
I3	US-				
J3	US-				
K3	US-				
L3	US-				
M3	US-				
N3	US-				
O3	US-				
P3	US-				
Q3	US-				
R3	US-				
S3	US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
T3		WO 02/03263 A2	01/10/2002			
U3		WO 02/03264 A2	01/10/2002			
V3		WO 02/03265 A2	01/10/2002			
W3						
X3						
Y3						

Examiner Signature		Date Considered	
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(Use as many sheets as necessary)

Sheet

4

of

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First Named Inventor	Kok-Thye Lim
Art Unit	2123
Examiner Name	Eduardo Garcia Otero

Attorney Docket Number 1048-OBJ1117-US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A4	P.A. Forsyth, et al., "Local Mesh Refinement and Modeling of Faults and Pinchouts", SPE FORM EVALUATION, June 1986, Vol. 1, No. 3, pages 275-285. XP-002191830	
	B4	Y. Ding, et al., "Developement of Dynamic Local Grid Refinement in Reservoir Simulation", Proceedings of the 13th SPE Symposium on Reservoir Simulation, New Orleans, LA, February-March 1993, pages 501-510. XP-002191831	
	C4	S. Venna, et al., "A Control Volume Scheme for Flexible Frids in Reservoir Simulation", Proceedings of the 1997 SPE Reservoir Simulation Symposium, Dallas, TX, June 1997, pages 215-227. XP-002191832	
	D4	S. Kocberber, et al., "An Automatic, Unstructured Control Volume Generation System for Geologically Complex Reservoirs", Proceedings of the 1997 SPE Reservoir Simulation Symposium, Dallas, TX, June 1997, pages 241-252. XP-002191833	
	E4	Y. Kuwauchi, et al., "Development and Applications of a Three Dimentional Voronoi-Based Flexible Grid Black Oil Reservoir Simulator", SPE Asia Specific Oil & Gas Congerence, Adelaide, Australia, October 1996, pages 1-12. XP-002191834.	
	F4	R. Page, et al., "A Functional Program Describing a Simple Reservoir Model and Its Potential for Parallel Computation", Proceedings of the 1990 Symposium on Applied Computing, IEEE, April 1990, pages 85-91.	
	G4	C. Giertsen, et al., "Volume Visulization of Sparse Irregular Meshes", Computer Graphics and Applications, IEEE, Vol. 2, No. 2, March 1992, pages 40-48.	
	H4	S. Ghosh, "Curvilinear Local Grid Refinement", SPE 50633, SPE European Petroleum Conference, The Netherlands, 20-22 October, 1998.	
	I4	H. N. Sharpe, et al., "A New Adaptive Orthogonal Grid Generation Procedure for Reservoir Simulation" 65th Annual Technical Conference and Exhibition of the Society of Petroleum Engineers, New Orelans, LA, September 23-26. 1990.	
	J4	M. Wheeler, et al., "A Parallel Multiblock/Multidomain Approach for Reservoir Simulation", Proceedings of the 1999 15th Symposium on Reservoir Simulation, Houston, TX, February 1999. XP-002188857	

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				Application Number	09/896,136
				Filing Date	June 29, 2001
				First Named Inventor	Kok-Thye Lim
				Art Unit	2123
				Examiner Name	Eduardo Garcia Otero
Sheet	5	of	6	Attorney Docket Number	1048-OBJ1117-US

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	A5	D. Kahaner, et al., "An Experimental Algorithm for N-Dimensional Adaptive Quadrature", ACM Transactions on Mathematical Software (TOMS), March 1979, pages 86-96.			
	B5	Y. Ozdogan, "Seismic Data Processing", Society of Exploration Geophysics, Tulsa, OK, 1991, pg. 514-515.			
	C5	S. Norris, et al., "Modeling Fluid Flow Around Horizontal Wellbores", Proceedings: SPE Annual Technical Conference and Exhibition 1990 Part 4, New Orleans, LA September 23-26, 1990, Vol. SIGMA, pp. 65-75.			
	D5	P. Perrochet, "Finite Hyperelements: A 4D Geometrical Framework Using Coariant Bases and Metric Tensors" COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, June 1995, UK, vol. 11, no. 6, pgs 525-534			
	E5	J.M.M. Regtien, et al., "Interactive Reservoir Simulation", Proceedings of the 13th Symposium on Reservoir Simulation, San Antonio, TX February 12-15, pgs. 545-552.			
	F5	C. Buckalew, et al., "Oilfield Visualization on the PC Platform", 2000 SPE/AAPG Western Regional Meeting, June 19-23, 2000, pgs 1-5.			
	G5	E. Farkas, "Linearization Techniques of Reservoir Simulation Equations: Fully Implicit Cases, Proceedings of the 1997 SPE Reservoir Simulation Symposium, Dallas, Texas June 8-11, 1997, pgs 87-95.			
	H5	E. Farkas, "Linearization Techniques of Reservoir Simulation Equations: Fully Implicit Cases, Richardson, Texas, December 1998, Vol. 3, no. 4, pgs. 316-323.			
	I5	P. Benedeck, "Capacitances of Planar Multiconductor Configuration on a Dielectric Substrate by a Mixed Order Finite-Element Method, IEEE1974.			
	J5	Fu, et al., "Time Integration Procedures for a Cyclic Thermoviscoelasticity Model for Pb-Sn solder applications, IEEE 1996.			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/896,136
Sheet	6	of	6	Filing Date	June 29, 2001
				First Named Inventor	Kok-Thye Lim
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	A6	P. J. Zwart, et al., "Space-Time Meshing for Two-Dimensional Moving Boundary Problems", Proceedings of the Seventh International Meshing Roundtable, pgs 187-199, 1998.	
	B6	S. L. Ho, et al., "Generation and Rotation of 3-D Finite Element Mesh for Skewed Rotor Induction Motors Using Extrusion Technique", IEEE Transactions on Magnetics, pgs 1266-1269, May 1999.	
	C6		
	D6		
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